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IDEA-0318-69

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10 April 1969

MEMORANDUM FOR THE RECORD

SUBJECT: Meeting on 8 April 1969 in SSD/R&D/OSA Office

1. A meeting was convened in SSD/R&D/OSA office on 8 April 1969. In full time attendance were the following:

A. ITEK - [REDACTED] 25X1A

B. USAF - [REDACTED] AFIGO-S, Pentagon.

C. OSA - [REDACTED]. Limited attendance: Messrs.  
[REDACTED] 25X1A  
[REDACTED] 25X1A

2. Purpose of Meeting:

A. Discuss status of IRIS II SN-001 and to review photography, resolution target readings from most recent test missions.

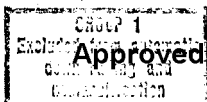
B. Update overall status of IRIS II.

C. Review thermal test results of IRIS II run in ITEK environmental chamber.

D. Review IRIS II window problems.

3. Action taken or to be taken as result of meeting:

A. Material presented indicates IRIS II SN-001 is ready to be declared OR. However, SSD/R&D/OSA will hold decision in abeyance until NPIC has submitted their evaluation of GT 69-146. This mission is now at E-K being processed and should be delivered to NPIC around 11 April. NPIC's report should be available by 18 April 1969. NPIC has been directed to submit report only to OSA. We are aware and NPIC has been informed of certain minor discrepancies in the mission they will be evaluating. Project Headquarters is also directing ITEK-West Coast to send a man [REDACTED] to Det. H to train and update ITEK personnel on the IRIS II and test equipment and to assist in checkout of SN-001 when it arrives at Det. H.



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B. To date, the IRIS II program is on schedule. The first IRIS II (SN-005) was delivered to Davis-Monthan AFB 9 April 1969. A hatch is also being delivered to D-M AFB. Finalized tech manuals will be delivered on schedule this month as will the P.I. or Exploitation Manual for the IRIS II.

C. The purpose of the thermal tests in ITEK environmental chamber was to determine:

(1) The effects of temperature changes on the resolving capabilities of the IRIS II system.

(2) The time required for the lens to display resolution within specification requirements (1' at nadir).

Two (2) separate tests were run -- one, to simulate a "hot day", another, to a "cold day". Tests indicated for a "cold day" mission it would require  $3\frac{1}{2}$  hours before camera would operate at 100% peak resolution. For a "hot day" 57% of peak resolution was realized after  $4\frac{1}{2}$  hours of camera operation and to reach 100% of peak resolution, it would require about  $5\frac{1}{2}$  hours of camera operation. These tests definitely proved it will be required to insulate the upper hatch and it will be necessary to use preconditioning equipment to control environment within the Q-bay prior to take off. Preconditioning equipment will be absolutely essential if we operate in a "hot day" climatic regime.

D. IRIS II Window Problem (Double Imagery): Essentially, the problem is we are getting a small amount of double imagery at the junctions of the outboard windows. This phenomena is unavoidable and expected. At these junctions, we are getting imagery displacement of 20 to 35 microns (1 mm = 1,000 microns) in a band about 1" wide across the width of the format. This band shows up at about  $42^{\circ}$  either side of nadir on the forward format and at  $55^{\circ}$  on the aft format. Our objective will be to reduce this double imagery. To accomplish this we must run an extra test mission with IRIS II SN-001 ASAP, to determine to what degree the wedges in the outboard windows must be changed. [redacted] was made aware of this requirement on 8 April 69). Until this test mission is run and results available to ITEK, all grinding and polishing of outboard windows has been stopped. This essentially stops production of 5th set of windows for the 5th hatch and all subsequent windows. It takes 10 weeks to

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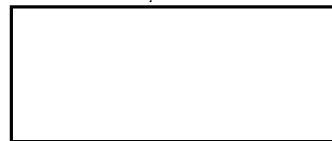
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grind and polish a set of windows and 2 weeks for LAC to put a window assembly into a hatch. In other words, it will be 12 weeks before another IRIS II hatch will be ready. Therefore, it is strongly recommended this short mission should be run ASAP. It will take an ITEK engineer about 1 day to place additional wedge windows on the existing windows within the hatch. Mission is relatively simple, no instrumentation required, 2½ hour flight over urban areas. (Action Required by: IDEA/O/OSA, D/O/OSA and D/M/OSA).



SSD/R&D/OSA

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SSD/R&D/OSA/[redacted]:bjg

Distribution:

- Copy 1 - DD/SA
- 2 - D/O/OSA
- 3 - D/M/OSA
- 4 - IDEA/O/OSA
- 5 - CMD/OSA ([redacted])
- 6 - D/R&D/OSA
- 7 - SSD/R&D/OSA
- 8 - SSD Chrono
- 9 - RB/SA

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